Data Sheet (Cat.No.T27288)

TargetMol

Esuprone

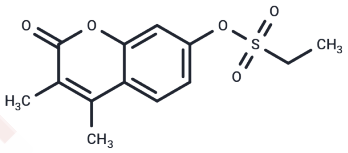
Chemical Properties

CAS No. : 91406-11-0

Formula: C13H14O5S

Molecular Weight: 282.31

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	Esuprone (LU-43839) is a novel reversible and highly selective MAO-A inhibitor with anticonvulsant activity for the treatment of depression.
Targets(IC50)	MAO,Monoamine Oxidase
In vivo	Esuprone (800 mg; four volunteers) showed a rapid elimination with a half-life of about 4 h through plasma kinetics of esuprone.[2]

Solubility Information

Solubility	DMSO: 2.83 mg/mL (10.02 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5422 mL	17.711 mL	35.4221 mL
5 mM	0.7084 mL	3.5422 mL	7.0844 mL
10 mM	0.3542 mL	1.7711 mL	3.5422 mL
50 mM	0.0708 mL	0.3542 mL	0.7084 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Löscher W, et al. Inhibition of monoamine oxidase type A, but not type B, is an effective means of inducing anticonvulsant activity in the kindling model of epilepsy. J Pharmacol Exp Ther. 1999 Mar;288(3):984-92.
Bergström M, et al. 11C-harmine as a tracer for monoamine oxidase A (MAO-A): in vitro and in vivo studies. Nucl Med Biol. 1997 May;24(4):287-93.
Bergström M, et al. MAO-A inhibition in brain after dosing with esuprone, moclobemide and placebo in healthy volunteers: in vivo studies with positron emission tomography. Eur J Clin Pharmacol. 1997;52(2):121-8.

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